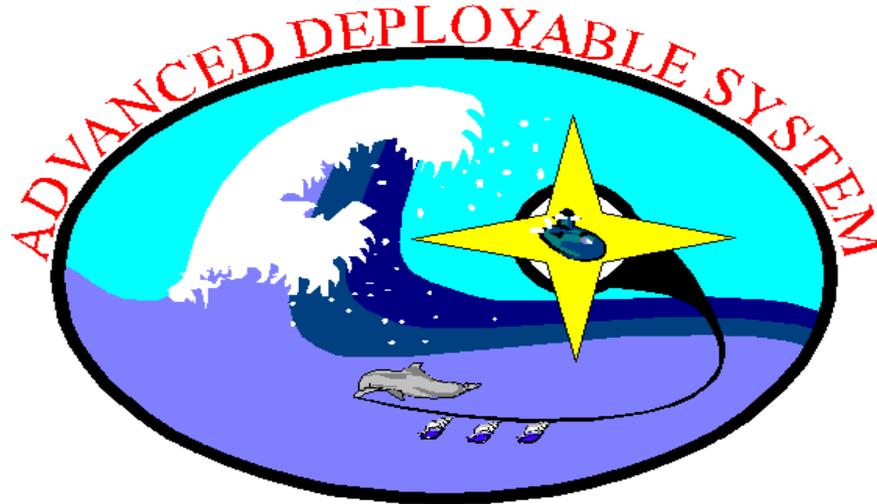


# ADS as a Force Protector for Expeditionary Forces

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Expeditionary Warfare Conference

30 October 2001



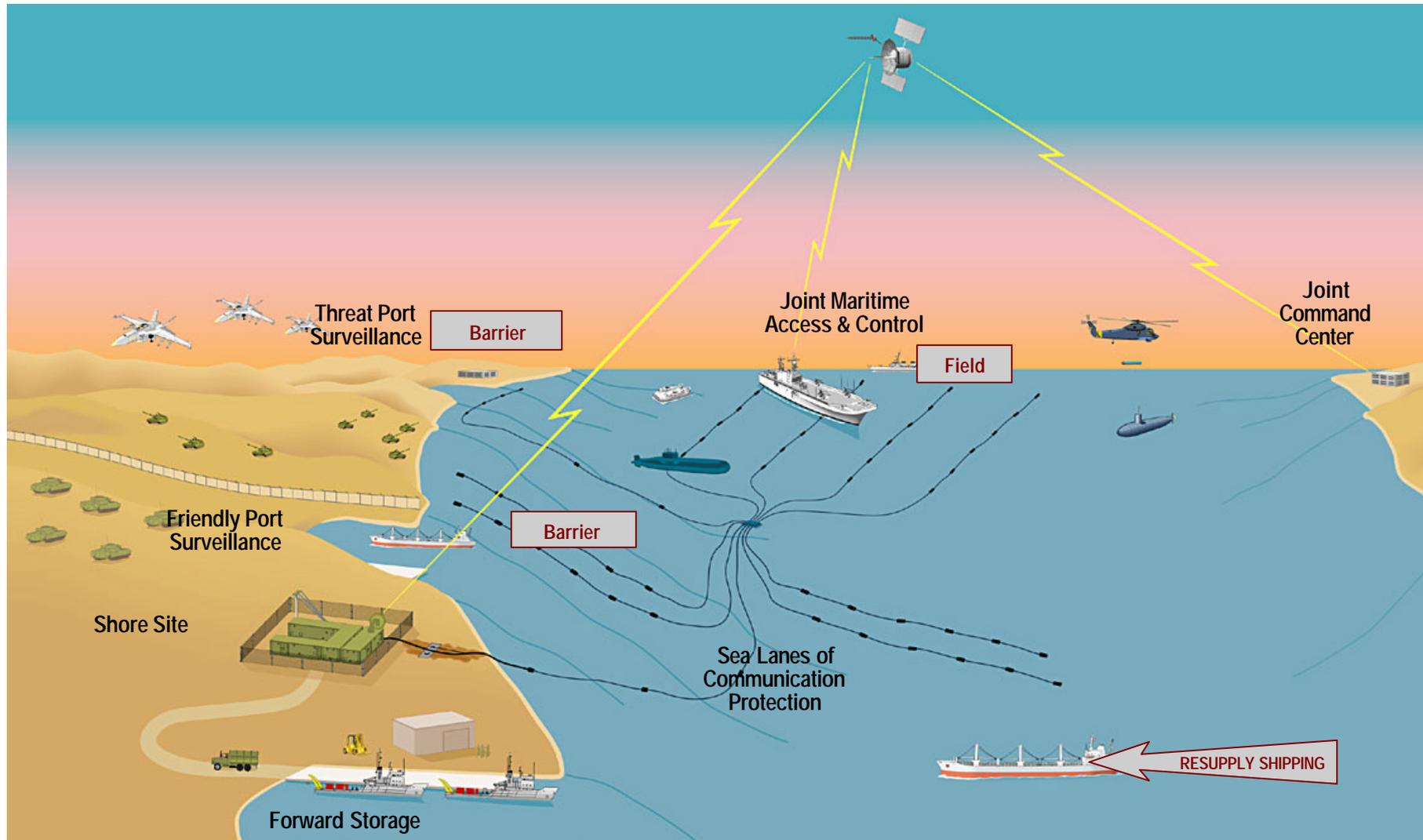
**Jim Gilbert**

TRW Systems

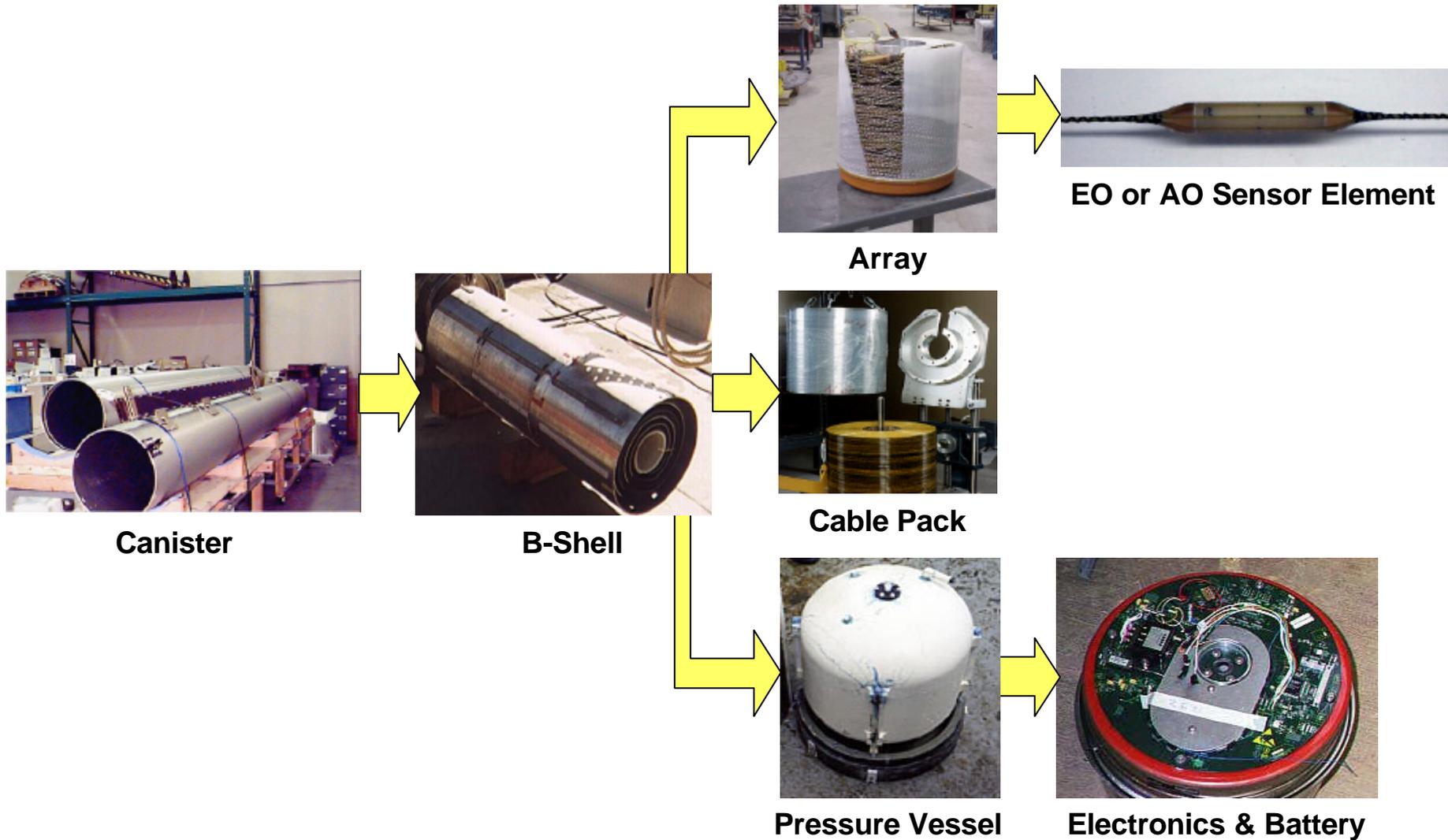
(619) 542-2234 [jim.gilbert@trw.com](mailto:jim.gilbert@trw.com)



# ADS Overview

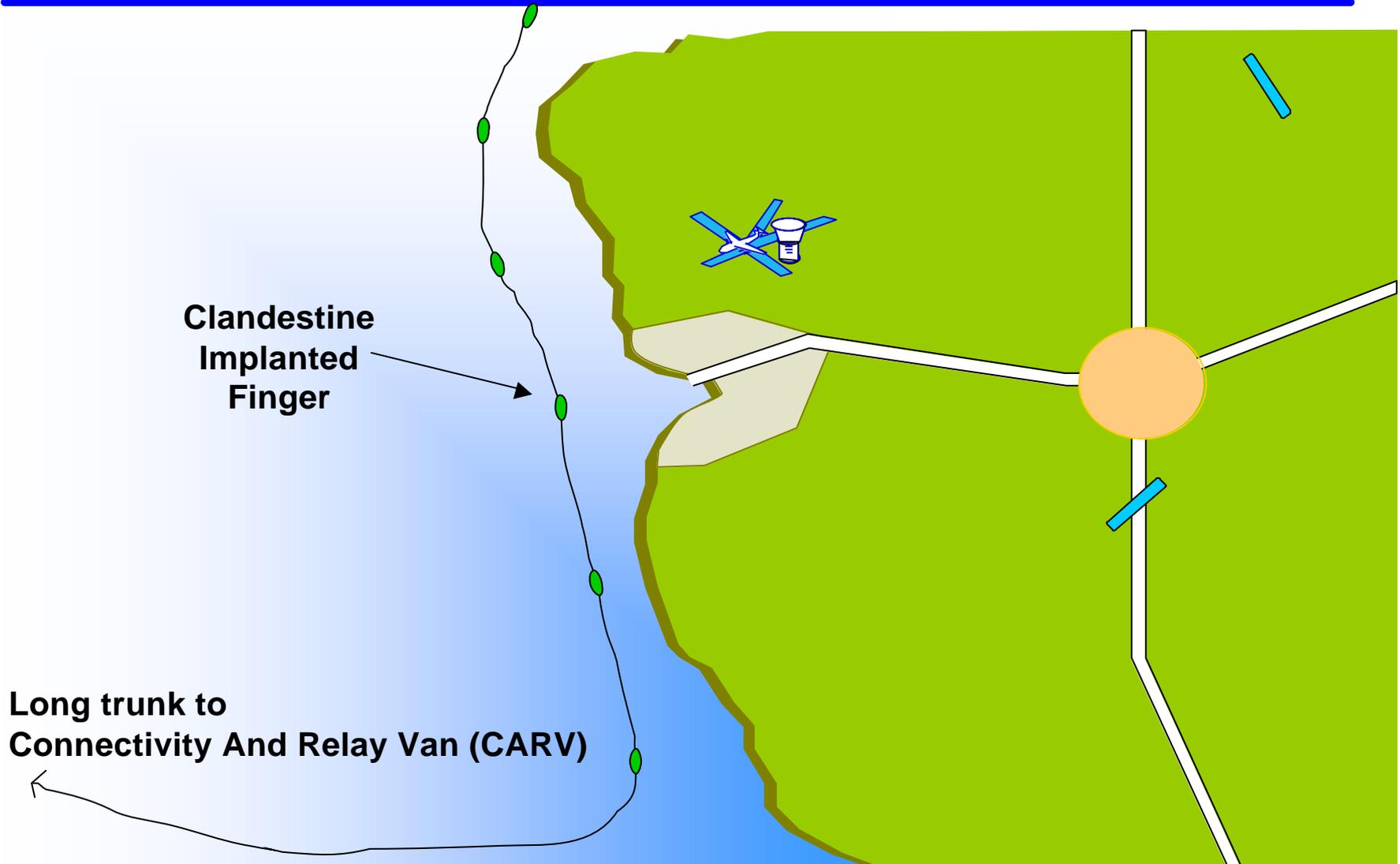


# ADS Underwater Segment



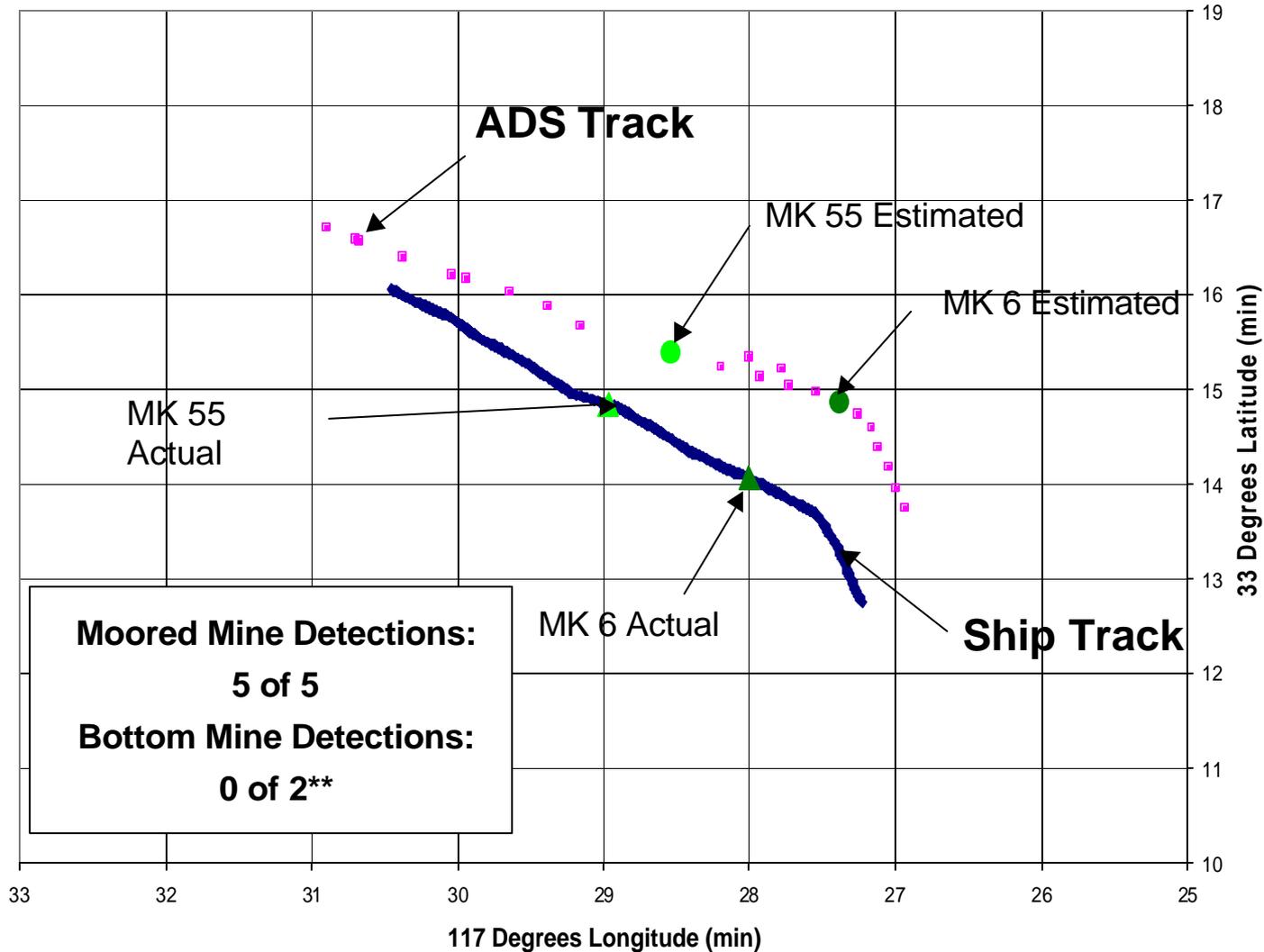


# Pre-Operation Mining Surveillance



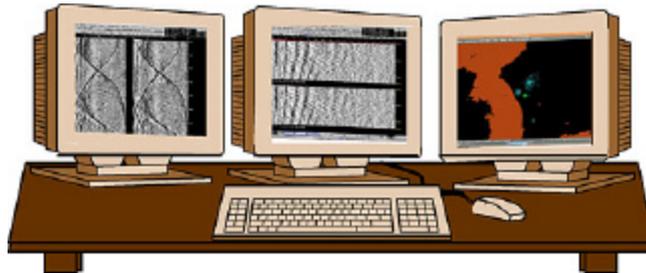


# FET MINEX



\*\* Real Time; post processing indicates possibility that sensor did detect event.

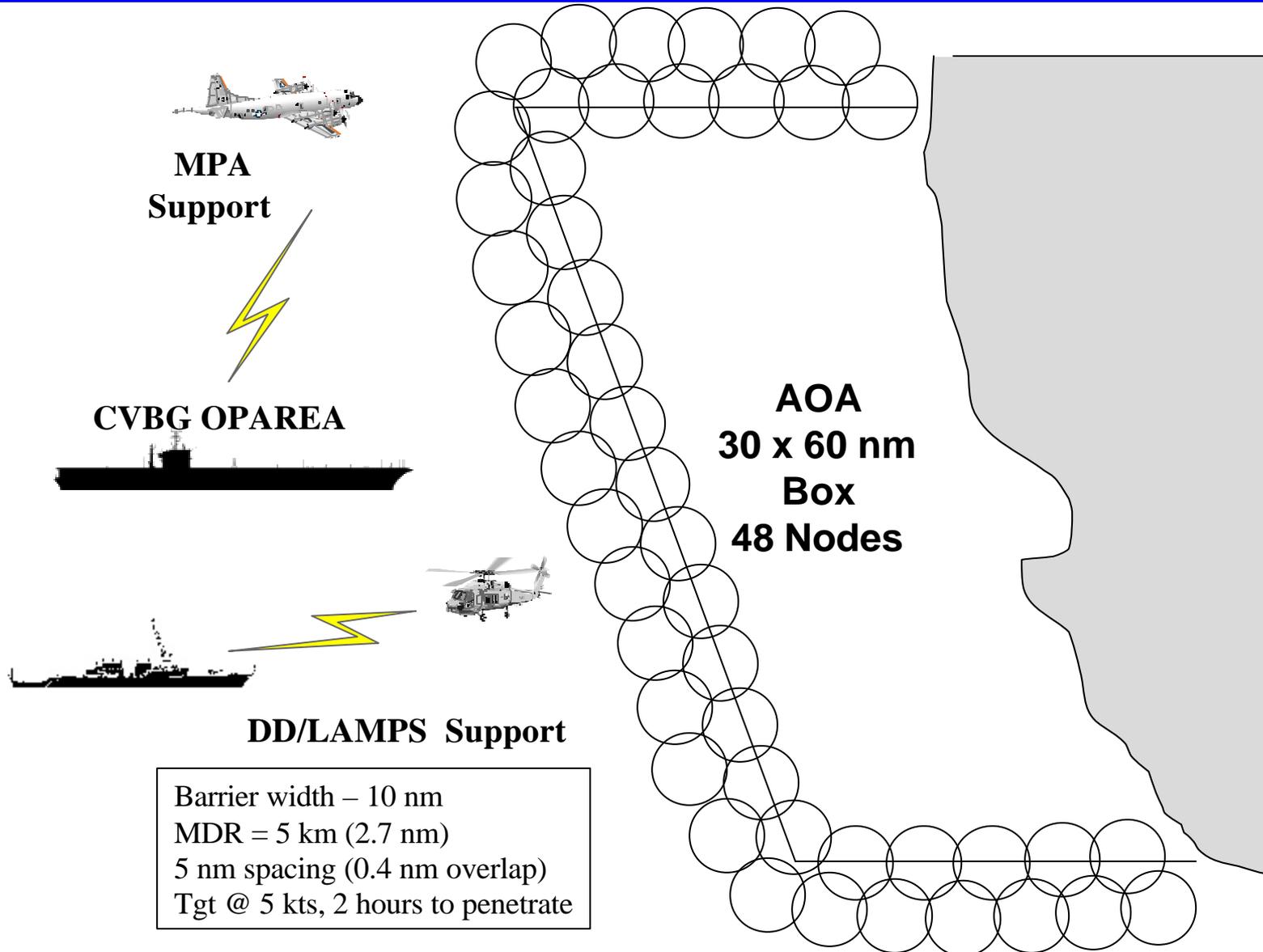
# Complete Maritime View



I & W  Force Protection



# Notional Force Protection Laydown





# FET (Feb-May 99) Results

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- Three major fleet exercises
  - 7 cue-to-kills
  - Accounted for all sub kills in two exercises
- Exceeded Design Ao and Pd / Lowered timelate reporting significantly
- Mine laying detection
- Planes, trains, etc.

**“... love the system and the utility is perfect just for an environment like this”**

**CAPT LEFEVER (COMDESRON 21)**

**“... ADS was significant portion of first kill on Dolphin this afternoon with first contact info and positive identification criteria”**

**RADM LAFLEUR (COMCRUDESGRU 1)**

**“... cue to kills number for Kernal Blitz is misleading. The kill number would have been much higher if more tactical prosecution assets were available.”**

**RADM SMITH (COMPHIBGRU 3)**



# Challenges

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- **Survivability**
- **Understanding Tactical Employment Desires**
  - **Timeline**
  - **Processing Ashore / Afloat**
  - **People vs. Relay**
  - **C4I**